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On-line scheduling of order picking and delivery with multiple zones and limited vehicle capacity

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Highlights

- An integrated on-line order picking and delivery problem with multiple zones limited vehicle capacity is modeled.
- An on-line algorithm A is proposed and the competitive ratio is demonstrated to be 4.
- A is robust and efficient in different scenarios through the competitive analysis experiments.
- A leads to an impressive improvement of both the total cost and the delivery cost through comparison experiments.

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